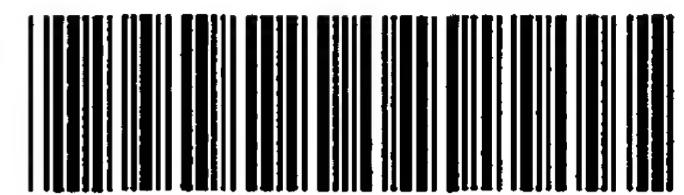


05-90
04/05

Page 1 of 6

6



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/052,589

DATE: 04/11/2002
TIME: 13:46:12

Input Set : A:\264734200.txt
Output Set: N:\CRF3\04112002\J052589.raw

3 <110> APPLICANT: Perez, Dianne
4 Zuscik, Michael
6 <120> TITLE OF INVENTION: Model systems for neurodegenerative and cardiovascular disorders

ENTERED

8 <130> FILE REFERENCE: 26473/04200
10 <140> CURRENT APPLICATION NUMBER: US 10/052,589
11 <141> CURRENT FILING DATE: 2002-01-18
13 <150> PRIOR APPLICATION NUMBER: US 09/568,255
14 <151> PRIOR FILING DATE: 2000-05-10
16 <160> NUMBER OF SEQ ID NOS: 3
18 <170> SOFTWARE: PatentIn version 3.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 2048
22 <212> TYPE: DNA
23 <213> ORGANISM: Mesocricetus sp.
25 <400> SEQUENCE: 1
26 gggcggactc taaaatgaat cccgatctgg acaccggcca caacacatca gcacacctggcc 60
28 aatggggaga gttgaaagat gccaacttca ctggcccaa ccagacctcg agcaactcca 120
30 cactgccccca gctggacgtt accagggcca tctctgtgg cctgggtctg ggcgccttca 180
32 tcctctttgc cattgtggc aacatcctgg tcatcctgtc agtggcctgc aatcggcacc 240
34 tgcggacgcc caccaactac ttcatgtca acctggccat tgctgacctg ctgttgagtt 300
36 tcacagtcct gcccttctcc gctaccctag aagtgttgg ctactgggtt ctggggcgca 360
38 tcttctgtga catctggca gcgggtggacg tcctgtgtc tacggcctcc atccctgagcc 420
40 tatgtgccat ctccattgtat cgctacattt gggtgcgcta ctctctgcag taccccactc 480
42 tggtcaccccg caggaaggcc atcttggcac tcctcagtgt gtgggttttgc tccacggtca 540
44 tctccatcgg gcctctccct ggatggaaag aaccagcgcc caacgacgac aaggaatgcg 600
46 gagtcaccga agaacccttc tatgccctt tttccctccct gggctccttc tacatcccac 660
48 tcgcggcat tctggcatg tactgcggg tctacatcgt ggcgaagagg accaccaaga 720
50 acctggaggc tggagtcatg aaggagatgt ccaactccaa ggagctgacc ctgaggatcc 780
52 actccaagaa ctccatgag gacaccctca gcagttaccaa ggcgaaggc cacaacccca 840
54 ggagttccat agctgtcaaa cttttaagt tctccaggaa aaagaaagca gccaaaacct 900
56 tgggcattgt ggtcgaaatg ttcatcttgc gttggctccc cttcttcattc gctctccac 960
58 ttgggtccct gttctccact ctcaagcccc cggacgcccgt gttcaagggtg gtattctggc 1020
60 tgggctactt caacagctgc ctgaacccca tcatactaccc gtgtccagc aaggagttca 1080
62 agcgcgcctt catcgatc cttgggtgcc agtgcgtatc tggccgtcgc cgccgcgc 1140
64 gcccgtct gggcgctgc gtttacacct atcggccgt gacgcgcggc ggctcgctgg 1200
66 agcgatcgca gtcggggaaag gactccctgg acgacagcgg cagctgcatt agtggcagcc 1260
68 agaggaccct gccctcgccg tcgcccagcc cggctaccc ggtcgccgaa ggcgcagccac 1320
70 cactggagct gtgcgcctac cccgaatggaa atccggggc tctgctcgtt ctgcccagac 1380
72 ctccgggtcg cccgggtcg ctcgactctg ggccctt cacttcaag ctcttgggag 1440
74 agccggagag cccggggggg cagccgggtt tcaagagcaa catgcctctg gcacccgggc 1500
76 acttttaggg tccctttct ttccccccaca cacacccca gggggaggac accattgtgg 1560
78 gggggggggg catgggggggg agtgtcagcc ccgggttagac acagggtcgc aagggtacaa 1620
80 gggggggggg gggcgggggag aggggcagct gctttctgg caggggcatt gctgccaggt 1680

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/052,589

DATE: 04/11/2002
TIME: 13:46:12

Input Set : A:\264734200.txt
Output Set: N:\CRF3\04112002\J052589.raw

82 acagcggaga gctggctgcg catgctgaga gcctggggac ccaccccaa cgctggccgg 1740
 84 gacttaagtc tctctttct ctctctctgt atatatataa agagtccctc tatacgatt 1800
 86 tatctgtggg tacacgtgctg tgtgtctgtg cggtaacgt gtgggctgca tggatgttg 1860
 88 ttgggggcct gcccacttgc gcgtgctggg gcagagcgag tgtgtccct ggcaatgtca 1920
 90 ggtttgttgt ttgtctttg acttgtacct ctcaagcccc tccttgttct ctggtaatg 1980
 92 ctggcatttt gatggggttg gaaaccaagt cagatattaa aaatcatttc tcgtgaaaaa 2040
 94 aaaaaaaaa 2048
 97 <210> SEQ ID NO: 2
 98 <211> LENGTH: 497
 99 <212> TYPE: PRT
 100 <213> ORGANISM: Mesocricetus sp.
 102 <400> SEQUENCE: 2
 104 Met Asn Pro Asp Leu Asp Thr Gly His Asn Thr Ser Ala Pro Ala Gln
 105 1 5 10 15
 107 Trp Gly Glu Leu Lys Asp Ala Asn Phe Thr Gly Pro Asn Gln Thr Ser
 108 20 25 30
 110 Ser Asn Ser Thr Leu Pro Gln Leu Asp Val Thr Arg Ala Ile Ser Val
 111 35 40 45
 113 Gly Leu Val Leu Gly Ala Phe Ile Leu Phe Ala Ile Val Gly Asn Ile
 114 50 55 60
 116 Leu Val Ile Leu Ser Val Ala Cys Asn Arg His Leu Arg Thr Pro Thr
 117 65 70 75 80
 119 Asn Tyr Phe Ile Val Asn Leu Ala Ile Ala Asp Leu Leu Leu Ser Phe
 120 85 90 95
 122 Thr Val Leu Pro Phe Ser Ala Thr Leu Glu Val Leu Gly Tyr Trp Val
 123 100 105 110
 125 Leu Gly Arg Ile Phe Cys Asp Ile Trp Ala Ala Val Asp Val Leu Cys
 126 115 120 125
 128 Cys Thr Ala Ser Ile Leu Ser Leu Cys Ala Ile Ser Ile Asp Arg Tyr
 129 130 135 140
 131 Ile Gly Val Arg Tyr Ser Leu Gln Tyr Pro Thr Leu Val Thr Arg Arg
 132 145 150 155 160
 134 Lys Ala Ile Leu Ala Leu Leu Ser Val Trp Val Leu Ser Thr Val Ile
 135 165 170 175
 137 Ser Ile Gly Pro Leu Leu Gly Trp Lys Glu Pro Ala Pro Asn Asp Asp
 138 180 185 190
 140 Lys Glu Cys Gly Val Thr Glu Glu Pro Phe Tyr Ala Leu Phe Ser Ser
 141 195 200 205
 143 Leu Gly Ser Phe Tyr Ile Pro Leu Ala Val Ile Leu Val Met Tyr Cys
 144 210 215 220
 146 Arg Val Tyr Ile Val Ala Lys Arg Thr Thr Lys Asn Leu Glu Ala Gly
 147 225 230 235 240
 149 Val Met Lys Glu Met Ser Asn Ser Lys Glu Leu Thr Leu Arg Ile His
 150 245 250 255
 152 Ser Lys Asn Phe His Glu Asp Thr Leu Ser Ser Thr Lys Ala Lys Gly
 153 260 265 270
 155 His Asn Pro Arg Ser Ser Ile Ala Val Lys Leu Phe Lys Phe Ser Arg
 156 275 280 285
 158 Glu Lys Lys Ala Ala Lys Thr Leu Gly Ile Val Val Gly Met Phe Ile

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/052,589

DATE: 04/11/2002
TIME: 13:46:12

Input Set : A:\264734200.txt
Output Set: N:\CRF3\04112002\J052589.raw

159	290	295	300													
161	Leu	Cys	Trp	Leu	Pro	Phe	Phe	Ile	Ala	Leu	Pro	Leu	Gly	Ser	Leu	Phe
162	305				310						315					320
164	Ser	Thr	Leu	Lys	Pro	Pro	Asp	Ala	Val	Phe	Lys	Val	Val	Phe	Trp	Leu
165					325						330					335
167	Gly	Tyr	Phe	Asn	Ser	Cys	Leu	Asn	Pro	Ile	Ile	Tyr	Pro	Cys	Ser	Ser
168							340			345						350
170	Lys	Glu	Phe	Lys	Arg	Ala	Phe	Met	Arg	Ile	Leu	Gly	Cys	Gln	Cys	Arg
171							355			360						365
173	Ser	Gly	Arg	Arg	Arg	Arg	Arg	Arg	Arg	Arg	Leu	Gly	Ala	Cys	Ala	Tyr
174							370			375						380
176	Thr	Tyr	Arg	Pro	Trp	Thr	Arg	Gly	Gly	Ser	Leu	Glu	Arg	Ser	Gln	Ser
177	385					390					395					400
179	Arg	Lys	Asp	Ser	Leu	Asp	Asp	Ser	Gly	Ser	Cys	Met	Ser	Gly	Ser	Gln
180						405					410					415
182	Arg	Thr	Leu	Pro	Ser	Ala	Ser	Pro	Ser	Pro	Gly	Tyr	Leu	Gly	Arg	Gly
183						420					425					430
185	Ala	Gln	Pro	Pro	Leu	Glu	Leu	Cys	Ala	Tyr	Pro	Glu	Trp	Lys	Ser	Gly
186						435					440					445
188	Ala	Leu	Leu	Ser	Leu	Pro	Glu	Pro	Pro	Ser	Arg	Arg	Gly	Arg	Leu	Asp
189						450					455					460
191	Ser	Gly	Pro	Leu	Phe	Thr	Phe	Lys	Leu	Leu	Gly	Glu	Pro	Glu	Ser	Pro
192	465					470					475					480
194	Gly	Gly	Gln	Pro	Gly	Phe	Lys	Ser	Asn	Met	Pro	Leu	Ala	Pro	Gly	His
195						485					490					495
197	Phe															
200	<210>	SEQ	ID	NO:	3											
201	<211>	LENGTH:	3450													
202	<212>	TYPE:	DNA													
203	<213>	ORGANISM:	Mus	musculus												
205	<400>	SEQUENCE:	3													
206	tcgactgccc	agtgccttt	gcctctgcac	catctccatg	atcaatgagc	taaggtacca										60
208	ggagctccaa	caggttcaca	ctaccacaaa	cctcaaaaat	aggcatctct	tatgtttaaa										120
210	tctctaaagg	cagcttaggt	aagatagttg	aaatgagggc	agggactgtt	ttcaaaagcta										180
212	tctgaatcat	tgtttgtttg	tttgtttgtt	tgttatctca	gagaaactcc	ttagaattgt										240
214	atattttgtg	caactggaga	gcttgtgcca	tttttaatag	gagattaagg	accttaaacf										300
216	tatagtgggt	gatacatgt	tgtacaaca	acactaagag	gctggggaaa	gaggaagatt										360
218	atcatgattt	tggggccagc	ctgggctaat	aataagttct	aggccagcct	aggcccaagt										420
220	aagaccatct	ctcaaacaag	caatcaaagg	ctggagagtt	gtctcagcag	ataaggccat										480
222	ttggtgctct	tgcagaggac	tcgggtccaa	ttcccaccac	ccaaatggtg	gctcacaacc										540
224	atcccaactt	cagttcaga	ggacccatg	cccatctgtc	aactttcaca	ggcagcaaag										600
226	caggcaatga	atgtaatact	cacacgcaa	aaaaaaaaaa	aaaaaaaaaa	gacagtaaat										660
228	taaaagaaac	aaataaaca	aaaacgtaat	cttctccaaa	aagtacaagc	aaaaagactt										720
230	caaaagccca	actttaggt	gaagaacttg	cacaggaacc	gccttgcatt	gccctgtctt										780
232	ccttgcctt	taatcaaaaat	acagcgacta	tcaaaagcag	aaattagaag	cctggccat										840
234	ggcttgcgaa	ctggaagaaa	tgggtatcag	gtgtctcctt	gcaattcagc	agccactgcc										900
236	ctgtccctg	cctcatgtca	ctagcatatg	actaactctc	tgtactactg	ttttctcg										960
238	tgtccacaga	gagcagtat	gcctctct	caaagacttg	ttaaagaaaa	ataaaagaaa										1020
240	ataagtaagc	tgggtgtgt	gtcttatgt	tgtatccaa	gcactgggga	ggtggggcc										1080

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/052,589

DATE: 04/11/2002
TIME: 13:46:12

Input Set : A:\264734200.txt
Output Set: N:\CRF3\04112002\J052589.raw

242	aacggatttt	ggggtttggg	acaatattgg	tctgcatagt	gagctcaaga	ccagtgtgag	1140
244	ctacacagca	agaaaaggga	agagaagaga	agagaagaga	agagaagaga	ggagaggaga	1200
246	ggagaggaga	ggagagagag	aggagaggag	aggagaggag	aggagaggag	ggagaggaga	1260
248	ggaggggaga	gaaataagta	aatgtttgat	gaacagttag	agctcagcaa	atgtgggttc	1320
250	cttcccagta	gcactaactt	gagccccaaa	atgagccatt	aaaaaaaaaa	gcccaagttt	1380
252	taacatttac	tctatcccct	attttgcctc	tatagaaacg	gtgacttttc	tatggctcag	1440
254	tactcagcac	tagaataagg	aaacccagta	atgacattca	actccaactc	acccttcctc	1500
256	tcctcaatag	gcataatgtac	ttgaaaaaaaaa	cggctcaact	cccttatac	acgggtccca	1560
258	tcctcaaaac	agaaatcaaa	atgagactag	ttctctcatc	aagtcgggag	aaaaggcagc	1620
260	atgaacgtag	cacatggtct	agcatctaag	tattggaga	cagagaatct	ttagttcaaa	1680
262	accaacctga	agaccttctt	tctttttttt	ttttttttt	ttttttttt	aagaccttct	1740
264	ttctaaaaac	aaacaaaaca	aacaaacaag	aaaatttttc	cctgggttga	cttttttctt	1800
266	cttcctttt	gtaattaccc	acctctggaa	atagggttg	tagcctaata	gcctacatgt	1860
268	atacaaggca	atacaagaaa	agagccaaca	ggcaagaccc	cccccccaa	gtcccttccc	1920
270	caggatttgg	caatcagttcc	tcactctcta	ctcccagaga	tacaactagc	tccctctcac	1980
272	cctccctcc	cttcctccct	cctccctcc	ttccctcctt	ccctccttcc	ctccctccct	2040
274	cctccctcct	tcctccctc	cctcaactat	ctcttttagt	gacaacccca	agcccttct	2100
276	taaaatgtca	agttcagcct	agagatgtc	ctcacttgg	agagtatgt	ttgcctaga	2160
278	atgcacgaag	ccctgaattc	catccccagt	atcaaataaa	ccaaccacgg	cgttacatgc	2220
280	ttgttaattcc	agcaactcagg	aggtggccat	aggaaaatca	agagttcaaa	gttattctt	2280
282	tgttatacag	ttagctggag	ggcaacctga	gttacatcat	actctgtcat	taaaaaaaaaa	2340
284	aaatccaatt	catatttttc	cataccctgg	ttgcatttct	ctgtcctcaa	ttaatcttct	2400
286	cctaaactcc	tgtcattaga	tgtctcgctt	cagattttgc	ttgtttgata	agcttccact	2460
288	tgccggtcag	gaatctgggt	acccttctaa	ctgttggaga	acagtgccta	gaatggagcc	2520
290	actggcctgg	aggtggacat	taacaatcca	ctgaaggaat	gtgtgcaggg	aataactgaa	2580
292	cgaatgaatg	agcaacagaa	gtttctaggt	tttatcaagg	ccaaagaggt	tgcaaggggg	2640
294	aactaaagta	tagcgttgg	ctcagatgt	actcaagtct	ctgtcacctg	cctaacgcag	2700
296	ggattttctt	cctttttagt	aagccagtt	tgttagaagtt	gcacatctt	ctgaacccat	2760
298	ggcttgactc	caggagcccc	cattagaggt	aagcatcccc	accctacctt	ttaactgaag	2820
300	cgtgaacagg	ggaaaaaaat	aatcccagcg	ggccccctgg	ggtgtatgaa	ccggatgcc	2880
302	cacacccgga	tcccctgctc	tgctccccgc	cccatccccg	cagagggagc	gtgccccggc	2940
304	gccccggc	tccaagccga	ctaggctggc	gttggcgct	gggctgcgt	ccttggctgg	3000
306	acccgcattt	cccccttagt	ccgcacagag	tcagggcgcc	cggtttccc	cgctgtatgt	3060
308	caccgcgtt	cagtcaagcc	agaggcgct	cattgaaagc	agaccgcgg	cggtccggggc	3120
310	acagccgggc	accccccggcc	cggcgccgc	tcctccccgc	gctcccgcgc	cagcccccggcc	3180
312	aggcgccct	gacgtggacc	attaaacttg	gagctccgc	ctcgccccct	ctctccttct	3240
314	cctccctctg	acaggcgagc	gagccgctgg	gtgcaggcag	gcgaggtgt	gccgggctag	3300
316	gctgccccggg	ggagatgact	tctcgccagg	aggacgcctc	tggaaagaag	accacggagg	3360
318	gagcaaagtt	tcagggcagc	tgaggagctt	tggcgcagc	ccttccgagc	ccaatctcct	3420
320	ccctggctat	ggagggcgga	ctttaaaatg				3450

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/052,589

DATE: 04/11/2002

TIME: 13:46:13

Input Set : A:\264734200.txt

Output Set: N:\CRF3\04112002\J052589.raw